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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/649,084	08/26/2003	Chih-Hsien Chou	4923 EXAMINER	
25859	7590 02/23/2004			
WEI TE CHUNG			MAYO III, WILLIAM H	
FOXCONN INTERNATIONAL, INC. 1650 MEMOREX DRIVE			ART UNIT	PAPER NUMBER
SANTA CLA	ARA, CA 95050		2831	
			DATE MAILED: 02/23/200	4

Please find below and/or attached an Office communication concerning this application or proceeding.

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	·	Applie	cation No.	Applicant(s)					
Office Action Commence			9,084	CHOU, CHIH-HSIEN					
Office Action Summary		Exam	in r	Art Unit					
			n H. Mayo III	2831					
Period fo	Th MAILING DATE f this communi or Reply	ication appears or	the cover sheet w	vith the correspondence address					
THE - Extermiter after - If the - If NC - Failur - Any I	ORTENED STATUTORY PERIOD FOMAILING DATE OF THIS COMMUNION of time may be available under the provisions SIX (6) MONTHS from the mailing date of this common period for reply specified above is less than thirty (30) period for reply is specified above, the maximum stare to reply within the set or extended period for reply reply received by the Office later than three months and patent term adjustment. See 37 CFR 1.704(b).	CATION. of 37 CFR 1.136(a). In r unication. d) days, a reply within the ututory period will apply a will, by statute, cause the	no event, however, may a e statutory minimum of thi and will expire SIX (6) MO e application to become A	reply be timely filed rty (30) days will be considered timely. NTHS from the mailing date of this communicat BANDONED (35 U.S.C. § 133).	ion.				
1)	Responsive to communication(s) file	d on							
2a) <u></u>	This action is FINAL . 2	b)⊠ This action i	s non-final.						
3)□	/								
Dispositi	ion of Claims								
5)□ 6)⊠ 7)□	Claim(s) 1 and 2 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) is/are allowed. Claim(s) 1 and 2 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or election requirement.								
	on Papers		·						
10)⊠	The specification is objected to by the The drawing(s) filed on 26 August 20 Applicant may not request that any object Replacement drawing sheet(s) including The oath or declaration is objected to	03 is/are: a) ☐ action to the drawing the correction is re	(s) be held in abeya quired if the drawing	nce. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1.121	(d).				
	ınder 35 U.S.C. §§ 119 and 120								
12) \(\begin{array}{c} & \ & \ & \ & \ & \ & \ & \ & \ & \ &	Acknowledgment is made of a claim All b) Some * c) None of: 1. Certified copies of the priority 2. Certified copies of the priority 3. Copies of the certified copies of application from the Internation application from the Internation acknowledgment is made of a claim for ince a specific reference was included 7 CFR 1.78. 1) The translation of the foreign land acknowledgment is made of a claim for acknowledgment is made of a claim for acknowledgment is made of a claim for a claim for acknowledgment is made of a claim for a	documents have documents have of the priority document Bureau (PCT of for a list of the cordomestic priority in the first sente guage provisional or domestic priority	been received. been received in a uments have been Rule 17.2(a)). certified copies no cy under 35 U.S.C ence of the specific d application has b y under 35 U.S.C	Application No In received in this National Stage It received. It is a provisional application or in an Application Data State It received. It is a provisional application or in an Application Data State It is a provisional application or in an Application Data State It is a provisional application or in an Application Data State It is a provisional application or in an Application Data State It is a provisional application or in an Application Data State It is a provisional application or in an Application Data State It is a provisional application or in an Application Data State It is a provisional application or in an Application Data State It is a provisional application or in an Application Data State It is a provisional application D	neet. fic				
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2) 🔲 Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (P mation Disclosure Statement(s) (PTO-1449) Pa			Summary (PTO-413) Paper No(s) Informal Patent Application (PTO-152)					

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DETAILED ACTION

Priority

1. Acknowledgment is made of applicant's claim for provisional priority under 35 U.S.C. 119(e). The provisional Application No. 60/406,135, filed on August 26, 2002.

Drawings

- 2. The drawings are objected to because Figures 3-5 and 7 lacks the proper cross-hatching which indicates the type of materials, which may be in an invention.

 Specifically, the cross hatching to indicate the insulative and conductor materials is improper. The applicant should refer to MPEP Section 608.02 for the proper cross-hatching of materials. Correction is required.
- 3. Figures 1-2B should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Specification

4. The abstract of the disclosure is objected to because in line 4, it contains the terms "while have opposite twist directions", which is improper grammar. The applicant should change the terms to state –while having opposite twist directions--. Correction is required. See MPEP § 608.01(b).

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Claim Rejections - 35 USC § 103

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- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 1-2 are rejected under 35 U.S.C. 103(a) as being unpatentable over Morimoto (Pat Num 6,355,876) in view of Donner et al (Pat Num 6,452,094, herein referred to as Donner). Morimoto discloses a communications cable (Fig 2) which reduces voice leakage (i.e. cross talk) and eases the task of cable end conditioning (Col 2, lines 7-10). Specifically, with respect to claim 1, Morimoto discloses a cable (Fig 2) that includes a plurality of twisted pairs of conductors (1-4) in a dense matrix-like form (Fig 2) defining thereof horizontal rows (denoted as A-C) and oblique columns (denoted as D-G) with each other in a rectangular coordinate system (as defined by A-C), wherein the twisted pairs (1) in the same row (A) have the same twist direction and wherein for each row (A-C) there is a ninety degrees phase shift between every adjacent two pairs (see 1, 3, & 4) and for each column (see E & G) there is a non-ninety degrees phase shift between every adjacent two pairs (see 1 & 4).

However, Morimoto doesn't specifically disclose all of the columns having a non ninety degree phase shift, nor the two adjacent pairs having opposite twist directions (claim 1), nor the cable defines a hexagonal form (claim 2).

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Donner teaches a communications cable (Figs 1-2B) having relatively low cross talk at high bit rates at relatively long distances (Col 1, lines 5-8). Specifically, Donner discloses a cable (Fig 2a) comprising four plurality of twisted pairs (19, 21, 22, & 23) in which two pairs (19 & 22) have a right-hand twist and the other two pairs (21 & 23) have a left-hand twist (Col 4, lines 1-15).

With respect to claim 1, it would have been obvious to one having ordinary skill in the art of cables at the time the invention was made to modify the twisted pair conductors of Murimoto to comprise the right and left alternative twist configuration as taught by Donner because Donner teaches that such a configuration provides a communications cable having relatively low cross talk at high bit rates at relatively long distances (Col 1, lines 5-8).

With respect to claims 1-2, it would have been obvious to one having ordinary skill in the art of cables at the time the invention was made to modify the all of the columns having a non ninety degree phase shift and the cable having a hexagonal form since it has been held that a change in form cannot sustain patentability where involved is only extended application of obvious attributes from a prior art. *In re Span-Deck Inc.* vs. Fab-Con Inc. (CA 8, 1982) 215 USPQ 835.

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. They are Paquin (Pat Num 4,413,469), Walling et al (Pat Num 5,424,491), Brorein et al (Pat Num 6,254,924), Ruthledge (Pat Num 6,323,427), Kenny

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et al (Pat Num 6,153,826), Brorein et al (Pat Num 5,767,441), Baker et al (Pat Num 5,834,697), Chou et al (Pat Num 6,348,651), Friesen et al (Pat Num 4,873,393), Wessels et al (Pat Num 5,814,768), and Cronkite et al (Pat Num 4,381,426), all of which disclose communications cable having various twist lengths of conductors.

Communication

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to William H. Mayo III whose telephone number is (703) 306-9061. The examiner can normally be reached on M-F 8:30am-6:00 pm (alternate Fridays off).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dean Reichard can be reached on (703) 308-3682. The fax phone number for the organization where this application or proceeding is assigned is (703) 305-3432.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

WHM III
January 24, 2004